FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES APV31929 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 10/577354 **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/EP2004/012836 **10 November 2004** 19 November 2003 TITLE OF INVENTION METHOD OF COOLING MOLTEN METAL DURING FRACTIONAL CRYSTALLISATION APPLICANT(S) FOR DO/EO/US Paul Alexander DE VRIES Martinus Leonardus RUTTEN Johannes Hendrikus TEN HAVE Volker Gerhard AURICH Huibrecht Adriaan WOUTERS Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: \boxtimes This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. 🛚 is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. \boxtimes is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. **b**. \Box has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. 🔲 are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. c. 🔲 have not been made; however, the time limit for making such amendments has NOT expired. **d**. ⊠ have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included: 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. \boxtimes **15**. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 16. 17. A substitute specification. 18. A power of attorney and/or change of address letter. 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 20. 21. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

22.

Express Mail Label No.

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U.S. APPLICATI	ON NO (if known, see	37 CFR 1.5)	INTERNATIONAL	APPL	ICATION N	0.	ATTORNEY'S DO	CKET NUMBER
	10/5//	354	PCT/EP20	04/0	12836		APV31	929
23. Other ite	ems or information:							
Applicat	ion Data Sheet							
Written								
The following	ng fees have been	submitted:		-			CALCULATIONS	PTO USE
The following fees have been submitted: 24. ⊠ Basic national fee						\$300	\$ \$300.00	
25. 🗵 Examination fee (37 CFR 1.492(c))								
If the written opinion prepared by ISA/US or the international preliminary examination report							\$ \$0.00	
prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations\$200						\$200		
26. Search fee (37 CFR 1.492(b))								
12 1			onal preliminary exar risions of PCT Article		•	\$0		
Search fee (37 C	CFR 1.445(a)(2)) ha	is been paid o	n the international ap	plicat	tion to the	•	\$ \$400.00	
as an International Searching Authority								
previously communicated to the US by the IB								
All other situations							\$ \$700.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding							· · · · · · · · · · · · · · · · · · ·	
sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.								
Total Sheets	Extra Sheets	<u> </u>	f each additional 50 c		RATI	=		
	Extra Silects		eof (round up to a wh		NATI	_		
- 100 =	0 /50 =		0		× \$250	0.00	\$ \$0.00	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).						ı or	\$	
CLAIMS	NUMBER F	1	UMBER EXTRA	<u> </u>	RATE			
Total claims	12	- 20 =	0	x	\$50	0.00	\$ \$0.00	
Independent clai	ms 1	- 3=	0	x	\$200	0.00	\$ \$0.00	
MULTIPLE DEPENDENT CLAIMS (if applicable)						0.00	\$ \$0.00	
TOTAL OF ABOVE CALCULATIONS =						NS =	\$ \$700.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						\$ \$0.00		
SUBTOTAL =						\$ \$700.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							\$ \$0.00	•
TOTAL NATIONAL FEE =						\$ \$700.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +						\$ \$0.00		
TOTAL FEES ENCLOSED =						\$ \$700.00		
							Amount to be	\$
							Amount to be	\$

10/577354

IAP12 Rec'd PCT/PTO 28 APR 2006

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a. 🗵 A check in the amount of \$ \$700.00	to cover the above fees is enclosed.								
b. Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	in the amount of \$	to cover the above fees.							
c. The Commissioner is hereby authorized to c to Deposit Account No. 19-4375	charge any additional fees which may be required . A duplicate copy of this sheet is enclosed.	ed, or credit any overpayment							
	RNING: Information on this form may become is form. Provide credit card information and au	•							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO:									
Anthony P. Venturino	SIGNATURE								
STEVENS, DAVIS, MILLER & MOSHER, LLP 1615 L Street N.W., Suite 850	Anthony P. Vent	urino							
Washington, D.C. 20036	NAME								
Tel: 202-785-0100	31,674								
Fax: 202-785-0200	REGISTRATION NU	REGISTRATION NUMBER							
		28,2006							
	DATE								
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